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10/678,853	10/03/2003	Isamu Uchida	WAKAB76.002AUS	2450	
05/90/20095 75/90 OS/90/20098 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET			EXAM	EXAMINER	
			MARTIN, ANGELA J		
FOURTEENTH FLOOR IRVINE, CA 92614		ART UNIT	PAPER NUMBER		
			1795		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

Application No. Applicant(s) 10/678.853 UCHIDA ET AL. Office Action Summary Examiner Art Unit Angela J. Martin 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 01 February 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/678,853

Art Unit: 1795

DETAILED ACTION

This Office Action is responsive to the Remarks filed on February 1, 2008. The Applicant has included a Summary of the Interview of December 21, 2007. However, after further review, a new rejection is presented for the following reasons of record.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding claim 1, the phrase "applying a current from an external electric source between the fuel electrode as negative and the air electrode as positive in the direction opposite to the first step" renders the claim indefinite because it is unclear what the limitation(s) of "the direction opposite to the first step" is referring to (what "direction").
- Claim 1 recites the limitation "the direction" in claim 1, line 8. There is insufficient antecedent basis for this limitation in the claim.

Page 3

Application/Control Number: 10/678,853

Art Unit: 1795

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al., JP 2003-217642, in view of Shiepe et al., U.S. Pat. No. 7,166,382 B2.

Rejection of claims 1-7 drawn to a process for generating power.

Uchida et al., teach comprising a process for generating power comprising: a first step of generating power from a fuel cell comprising a fuel electrode, an air electrode and an electrolyte membrane sandwiched therebetween (0004) wherein the fuel electrode is made of an alloy comprising platinum (0004) and a fuel is a liquid comprising a secondary alcohol (0004), by directly feeding the fuel to the fuel electrode (0004); a second step of contacting the air electrode in the fuel cell with an oxidizable material (0004); and a third step of generating power from the fuel cell after the second step (0030). The process as claimed in Claim 1, wherein the fuel electrode is made of an alloy of platinum and at least one metal selected from the group consisting of ruthenium (0015). The process as claimed in Claim 1, wherein an atomic composition ratio of platinum to the other elements in the alloy is 65:35 to 10/90 (0015). The process as claimed in Claim 1, wherein the oxidizable material is water or hydrogen (0030).

Uchida et al., do not teach the second step.

Application/Control Number: 10/678,853

Art Unit: 1795

Shiepe et al., teach a process for generating power comprising: a first step of generating power from a fuel cell comprising a fuel electrode, an air electrode and an electrolyte membrane sandwiched therebetween (col. 3, lines 3-40; Fig. 2) wherein the fuel electrode is made of an alloy comprising platinum (col. 6, lines 9-17); a second step of contacting the air electrode in the fuel cell with an oxidizable material and applying a current from an external electric source between the fuel electrode as negative and the air electrode as positive, after the first step (acting as electrolyzer)(col. 4, lines 31-40; col. 10, lines 11-25; col. 13, lines 5-17); and a third step of generating power from the fuel cell after the second step (col. 3, lines 3-40; col. 4, lines 20-52). The-process as claimed in claim 1, wherein the fuel electrode is made of an alloy of platinum and at least one metal selected from the group consisting of ruthenium, tin, tungsten, copper, gold manganese and, vanadium (col. 6, lines 9-17). The process as claimed in claim 1, wherein the fuel electrode is made of an alloy of platinum and at least one metal selected from the group consisting of ruthenium, tin and tungsten (col. 6, lines 9-17). The process as claimed in claim 1, wherein the fuel electrode is made of an alloy comprising platinum and ruthenium (col. 6, lines 9-17). The process as claimed in claim 1, wherein the oxidizable material is water or hydrogen (col. 4, lines 20-24; col. 6, lines 9-11). The process as claimed in claim 1, further comprising, a step of repeating the second step and the third step (col. 3, lines 3-40; col. 4, lines 20-52).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to insert the teachings of Shiepe et al., into the teachings of

Application/Control Number: 10/678,853 Page 5

Art Unit: 1795

Uchida et al., because the addition of the second step into Uchida et al., provides "the electrochemical cell can operate at a lower electrical resistance thereby leading to higher current output densities in the case of fuel cells or fuel cell operation, and increased energy efficiency in the case of electrolysis cells or electrolysis cell operation." (Shiepe et al)

Response to Arguments

7. Applicant's arguments filed 2/1/08 have been fully considered but they are not persuasive. Applicant argues, "Shiepe does not specifically use an alloy of platinum...the alloy of platinum is merely one of possible choices (there are about 20 choices in the list)." However, col. 6, lines 9-17, teach, " Suitable electrodes comprise, but are not limited to, platinum, palladium, rhodium, carbon, gold, tantalum, tungsten, ruthenium, iridium, osmium, alloys thereof, and the like." (Shiepe et al); which discloses electrodes comprise "platinum...alloys" and a listing of ten choices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272Art Unit: 1795

1288. The examiner can normally be reached on Monday-Friday from 10:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJM /Angela J. Martin/

Examiner, Art Unit 1795